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What is claimed is:

- 1 A tappet in a valve train of an internal combustion engine having a bottom camshaft for acting on a tappet push rod, said tappet being arranged with a housing for axial displacement, but secured against rotation, in a guide bore of the internal combustion engine or of a component connected to the internal combustion engine, said housing comprising on one front end, two cheek-like extensions that are situated diametrically opposite each other and are connected by an axle on which a rotary roller extends for making direct contact with a cam, said front end comprising a transverse region that connects the extensions axially inside and has a cylindrical shape in a length direction of the roller, an inner element being arranged in the housing for axial displacement relative to the housing, a head of the inner element forming a support for the tappet push rod in a region of a further front end of the housing, and said guide bore being intersected by one passage or by two passages for routing hydraulic medium to the tappet, wherein a radius center point of the transverse region of the one front end is situated with a lateral offset to a longitudinal axis of the tappet, one side of a periphery of the housing between the extensions is distinctly longer than an opposite side, and the one passage, or both passages is/are led to the housing at least approximately on the longer one side of the periphery.
- 2 A tappet in a valve train of an internal combustion engine having a bottom camshaft for acting on a tappet push rod, said tappet being arranged with a housing for axial displacement, but secured against rotation, in a guide bore of the internal combustion engine or of a component connected to the internal combustion engine, said housing comprising on one front end, two cheek-like extensions that are situated diametrically opposite each other and are connected by an axle on which a rotary roller extends for making direct contact with a cam, said front end comprising a transverse region that connects the extensions axially inside and has a cylindrical shape in a length

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direction of the roller, an inner element being arranged in the housing for axial displacement relative to the housing, a head of the inner element forming a support for the tappet push rod in a region of a further front end of the housing, and said guide bore being intersected by a first passage and a second passage for routing hydraulic medium to the tappet, wherein a radius center point of the transverse region of the one front end is situated with a lateral offset to a longitudinal axis of the tappet, so that one side of a periphery of the housing between the extensions is distinctly larger than an opposite side, and the first passage is led to the housing at least approximately on the longer one side of the periphery and the second passage is led to the housing at least approximately on the shorter, opposite side of the periphery, said second passage being led to the housing at a larger axial distance from the one front end of the housing than the first passage

3. A tappet of claim 1, wherein the extensions are made integrally on the housing, a space situated between the extensions together with the transverse region of the one front end of the housing is created by a cutting operation, typically disk milling.
4. A tappet of claim 2, wherein the extensions are made integrally on the housing, a space situated between the extensions together with the transverse region of the one front end of the housing is created by a cutting operation, typically disk milling.
5. A tappet of claim 1, wherein the tappet comprises at least one of a hydraulic lash adjuster and a coupling means for optionally uncoupling the inner element from the housing, only one passage being provided for a supply of hydraulic medium to said hydraulic lash adjuster and said coupling means.
6. A tappet of claim 1, wherein the tappet comprises a hydraulic lash adjuster and a coupling means for optionally uncoupling the inner element from the

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housing, two hydraulic medium passages being provided, one of these two passages supplies hydraulic medium to the hydraulic lash adjuster, and the other of these two passages provides hydraulic medium to the coupling means.

7. A tappet of claim 2, wherein the tappet comprises a hydraulic lash adjuster and a coupling means for optionally uncoupling the inner element from the housing, two hydraulic medium passages being provided, one of these two passages supplies hydraulic medium to the hydraulic lash adjuster, and the other of these two passages supplies hydraulic medium to the coupling means.
8. A tappet of claim 1, wherein the tappet comprises a coupling means for optionally uncoupling the inner element from the housing, two hydraulic medium passages being provided, one of these two passages serves to displace the coupling means into an uncoupling position, and the other of these two passages serves to displace the coupling means into a coupling position.
9. A tappet of claim 2, wherein the tappet comprises a coupling means for optionally uncoupling the inner element from the housing, two hydraulic medium passages being provided, one of these two passages serves to displace the coupling means into an uncoupling position, and the other of these two passages serves to displace the coupling means into a coupling position.